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* * * * * Welcome to STN International * * * * *

NEWS	1	Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	"Ask CAS" for self-help around the clock
NEWS	3 FEB 25	CA/CAPLUS - Russian Agency for Patents and Trademarks (ROSPATENT) added to list of core patent offices covered
NEWS	4 FEB 28	PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS	5 FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	6 FEB 28	MEDLINE/LMEDLINE reloaded
NEWS	7 MAR 02	GBFULL: New full-text patent database on STN
NEWS	8 MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	9 MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	10 MAR 22	KOREAPAT now updated monthly; patent information enhanced
NEWS	11 MAR 22	Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS	12 MAR 22	PATDPASPC - New patent database available
NEWS	13 MAR 22	REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS	14 APR 04	EPFULL enhanced with additional patent information and new fields
NEWS	15 APR 04	EMBASE - Database reloaded and enhanced
NEWS	16 APR 18	New CAS Information Use Policies available online
NEWS	17 APR 25	Patent searching, including current-awareness alerts (SDIs), based on application date in CA/CAPLUS and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications.
NEWS	18 APR 28	Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAPLUS
NEWS EXPRESS	JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005	
NEWS HOURS	STN Operating Hours Plus Help Desk Availability	
NEWS INTER	General Internet Information	
NEWS LOGIN	Welcome Banner and News Items	
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN	
NEWS WWW	CAS World Wide Web Site (general information)	

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:48:49 ON 10 MAY 2005

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'CAPLUS' ENTERED AT 14:49:00 ON 10 MAY 2005

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FILE COVERS 1907 - 10 May 2005 VOL 142 ISS 20

FILE LAST UPDATED: 9 May 2005 (20050509/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s (bulletin and 1988 and 6 and 982)/so

247883 BULLETIN/SO

448993 1988/SO

2475883 6/SO

4366 982/SO

L1 1 (BULLETIN AND 1988 AND 6 AND 982)/SO

=> dis l1

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1989:595186 CAPLUS

DN 111:195186

TI Vanadic oxidation of papaverine in 2.5 M and 5 M sulfuric acid

AU Postaire, E.; Martinez, D.; Viel, C.; Chastagnier, M.; Hamon, M.

CS Lab. Chim. Anal., Fac. Pharm., Chatenay-Malabry, 92290, Fr.

SO Bulletin de la Societe Chimique de France (1988), (

6), 982-8

CODEN: BSCFAS; ISSN: 0037-8968

DT Journal

LA French

OS CASREACT 111:195186

=> FIL STNGUIDE

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

10/827514

FULL ESTIMATED COST 9.11 9.32

FILE 'STNGUIDE' ENTERED AT 14:49:37 ON 10 MAY 2005
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: May 6, 2005 (20050506/UP).

=> FIL CASREACT

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.18	9.50

FILE 'CASREACT' ENTERED AT 14:51:13 ON 10 MAY 2005
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FILE CONTENT:1840 - 8 May 2005 VOL 142 ISS 19

New CAS Information Use Policies, enter HELP USAGETERMS for details.

*
* CASREACT now has more than 9.2 million reactions *
*

Some CASREACT records are derived from the ZIC/VINITI database (1974-1991) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> SET NOTICE DISPLAY 1

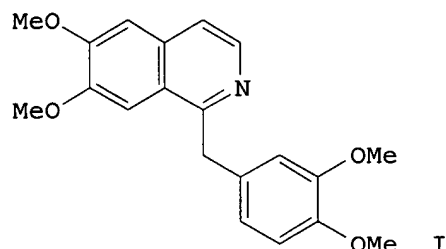
NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D ACC 111:195186 ALL

THE ESTIMATED COST FOR THIS REQUEST IS 6.62 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

ANSWER 1 CASREACT COPYRIGHT 2005 ACS on STN
AN 111:195186 CASREACT
TI Vanadic oxidation of papaverine in 2.5 M and 5 M sulfuric acid
AU Postaire, E.; Martinez, D.; Viel, C.; Chastagnier, M.; Hamon, M.
CS Lab. Chim. Anal., Fac. Pharm., Chatenay-Malabry, 92290, Fr.
SO Bulletin de la Societe Chimique de France (1988), (6), 982-8
CODEN: BSCFAS; ISSN: 0037-8968

DT Journal
 LA French
 CC 31-3 (Alkaloids)
 GI



AB Vanadic oxidation of papaverine (I) in 5 M H₂SO₄ media shows a full oxidation into carbon CO₂ and water. However, according to the exptl. conditions, and in 2.5 M and 5 M H₂SO₄ media, intermediates and products have been identified: papaveraldine, hemipinimide, m-hemipinic acid, 6,7-dimethoxyisoquinoline, 1-formyl-6,7-dimethoxyisoquinoline, 1-acetyl-6,7-dimethoxyisoquinoline, 4-hydroxy-6-demethylpapaveraldine, 4-hydroxy-4'-demethylpapaveraldine, 3-hydroxy-6-demethylpapaveraldine and 3-hydroxy-4'-demethylpapaveraldine.

ST papaverine vanadic oxidn

IT Oxidation

(of papaverine, by vanadic acid, in dilute sulfuric acid)

IT 522-57-6P 577-68-4P, m-Hemipinic acid 4764-20-9P, Hemipinimide
 13326-55-1P, 1-Acetyl-6,7-dimethoxyisoquinoline 15248-39-2P,
 6,7-Dimethoxyisoquinoline 71046-35-0P, 1-Formyl-6,7-
 dimethoxyisoquinoline 115698-47-0P, 4-Hydroxy-6-demethylpapaveraldine
 115698-48-1P 123348-80-1P, 3-Hydroxy-6-demethylpapaveraldine
 123348-81-2P, 3-Hydroxy-4'-demethylpapaveraldine

RL: FORM (Formation, nonpreparative); PREP (Preparation)
 (formation of, in vanadic oxidation of papaverine)

IT 6275-29-2, N-Acetylhomoveratrylamine

RL: RCT (Reactant); RACT (Reactant or reagent)
 (intramol. cyclization of)

IT 12260-63-8

RL: RCT (Reactant); RACT (Reactant or reagent)
 (oxidation by, of papaverine)

IT 68881-60-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and Grignard reaction of, with methylmagnesium bromide)

IT 4721-98-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and dehydrogenation of)

IT 4594-02-9P, 1-Methyl-6,7-dimethoxyisoquinoline

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and oxidation of)

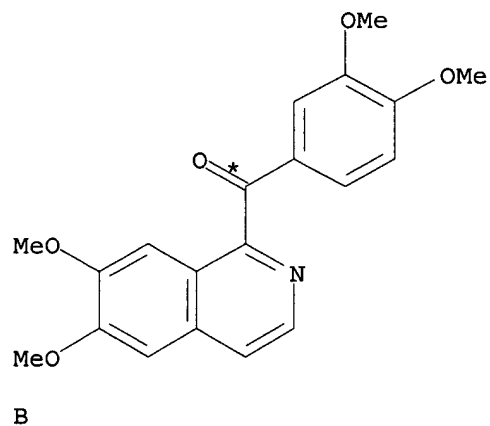
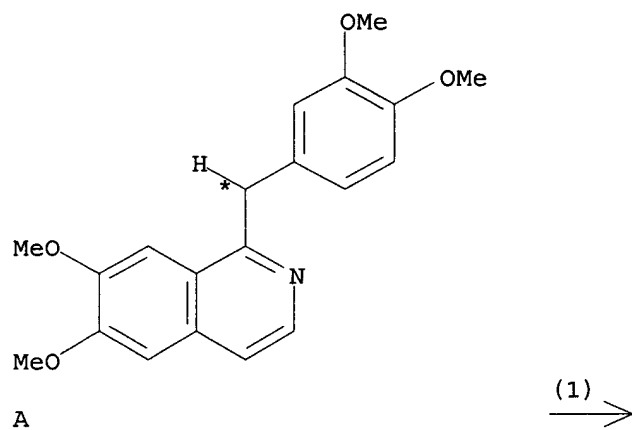
IT 24237-25-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

10/827514

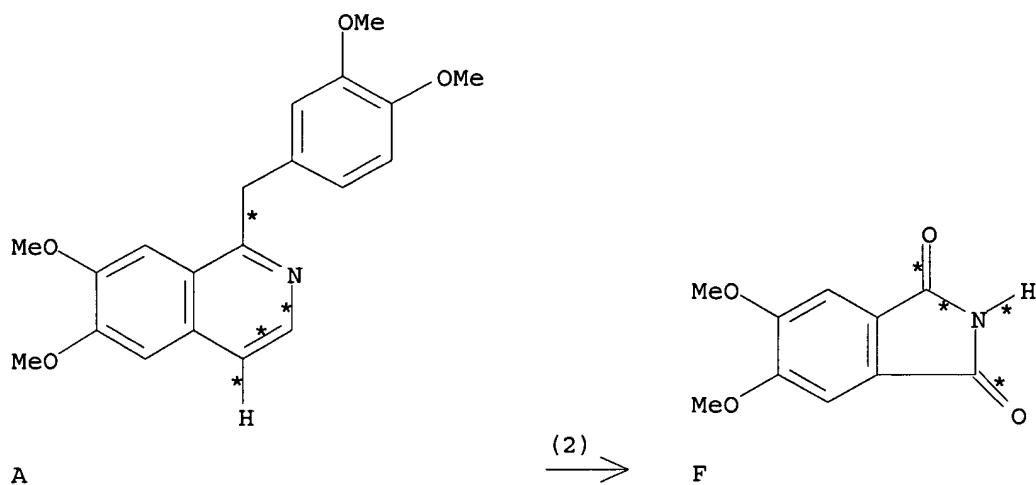
(preparation and oximation of)
IT 58-74-2, Papaverine
RL: RCT (Reactant); RACT (Reactant or reagent)
(vanadic oxidation of, in solute sulfuric acid)

RX(1) OF 24 A ==> B



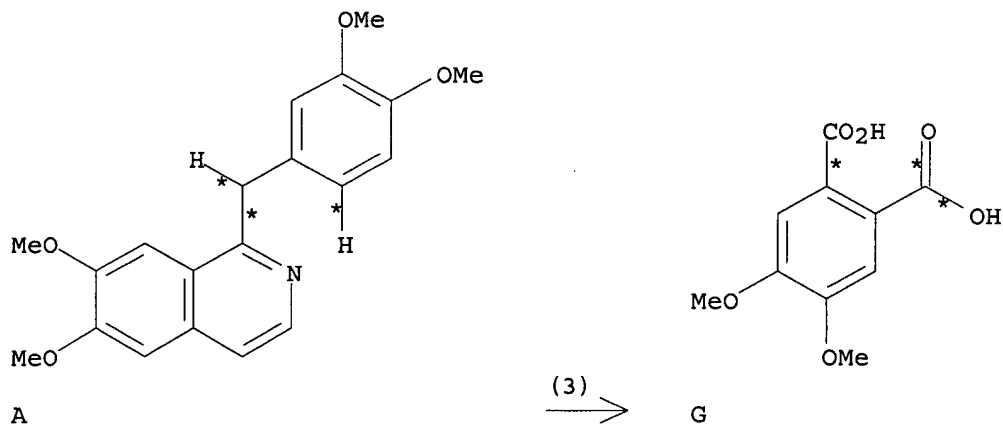
RX(1) RCT A 58-74-2
RGT C 7664-93-9 H2SO4, D 1314-62-1 V205
PRO B 522-57-6
SOL 7732-18-5 Water
NTE Other products formed, 2.5 and 5 m H2SO4

RX(2) OF 24 A ==> F



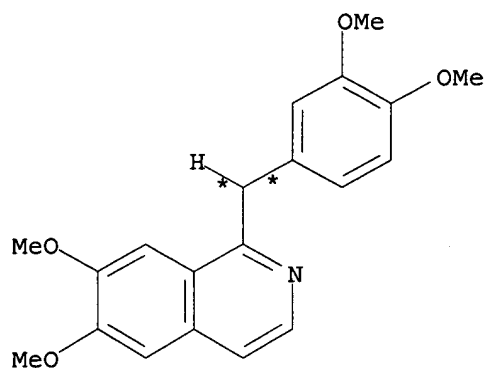
RX(2) RCT A 58-74-2
 RGT C 7664-93-9 H₂SO₄, D 1314-62-1 V205
 PRO F 4764-20-9
 SOL 7732-18-5 Water
 NTE OTHER PRODUCTS FORMED, 2.5 AND 5M H₂SO₄

RX(3) OF 24 A ==> G

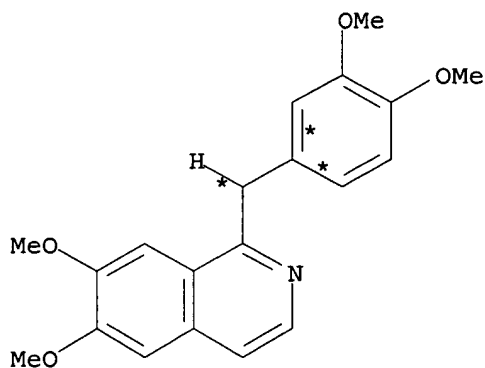


RX(3) RCT A 58-74-2
 RGT C 7664-93-9 H₂SO₄, D 1314-62-1 V205
 PRO G 577-68-4
 SOL 7732-18-5 Water
 NTE OTHER PRODUCTS FORMED, 2.5 AND 5M H₂SO₄

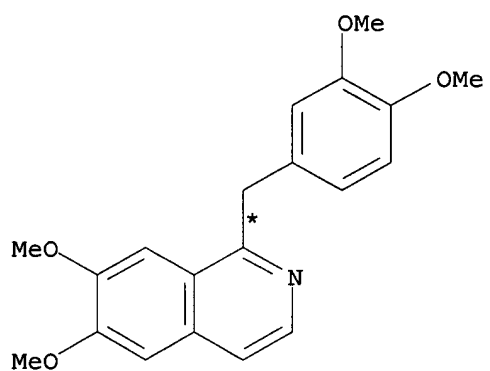
RX(4) OF 24 3 A ==> H + I + J...



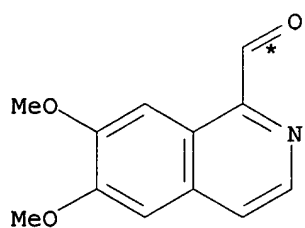
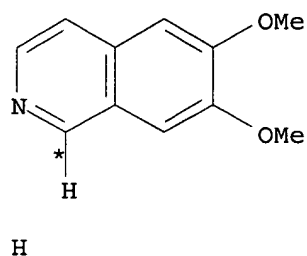
A



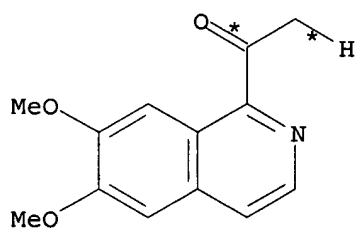
A



A



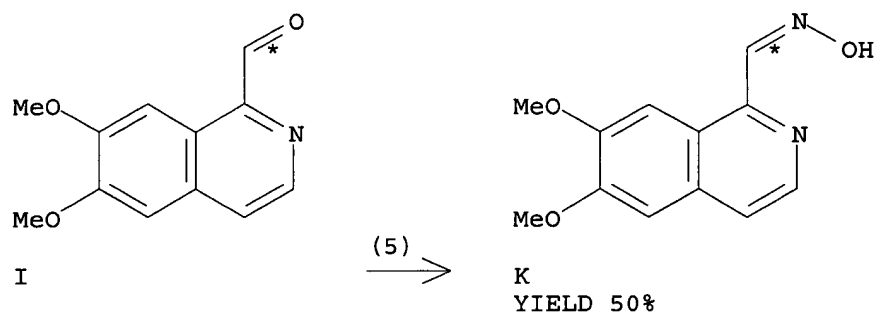
I



J

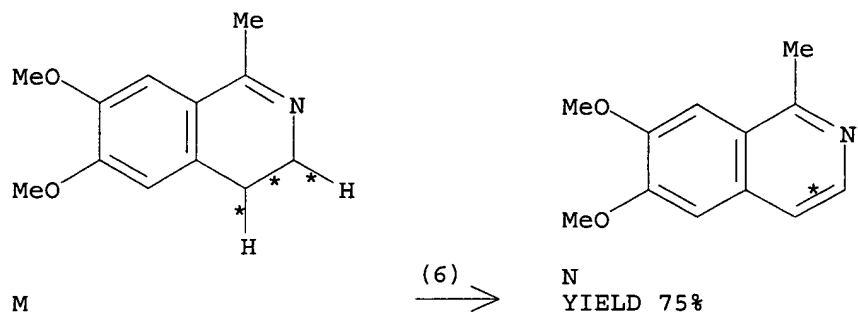
RX(4) RCT A 58-74-2
 RGT C 7664-93-9 H₂SO₄, D 1314-62-1 V2O₅
 PRO H 15248-39-2, I 71046-35-0, J 13326-55-1
 SOL 7732-18-5 Water
 NTE OTHER PRODUCTS FORMED, 2.5 AND 5M H₂SO₄

RX(5) OF 24 ...I ==> K...



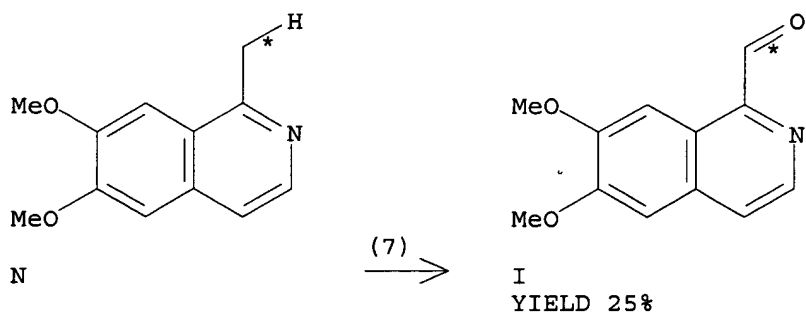
RX(5) RCT I 71046-35-0
 RGT L 7803-49-8 NH₂OH
 PRO K 24237-25-0

RX(6) OF 24 ...M ==> N...



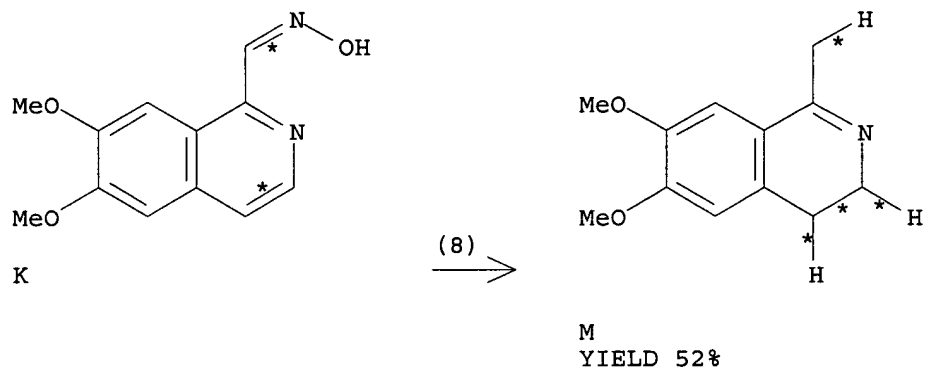
RX(6) RCT M 4721-98-6
 PRO N 4594-02-9
 CAT 7440-05-3 Pd
 SOL 103-73-1 PhOEt

RX(7) OF 24 ...N ==> I...



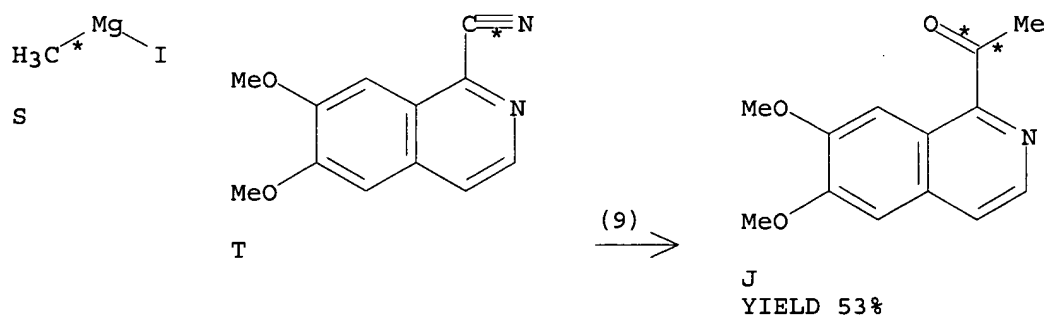
RX(7) RCT N 4594-02-9
 RGT Q 7446-08-4 SeO2
 PRO I 71046-35-0

RX(8) OF 24 ...K ==> M...



RX(8) RCT K 24237-25-0
 RGT R 108-24-7 Ac2O
 PRO M 4721-98-6

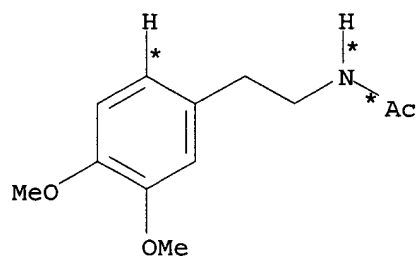
RX(9) OF 24 S + T ==> J



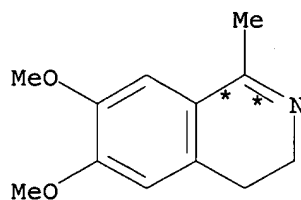
RX(9) RCT S 917-64-6, T 68881-60-7
 PRO J 13326-55-1

RX(10) OF 24 U ==> M...

10/827514



U



M
YIELD 87%

RX(10) RCT U 6275-29-2
RGT V 10025-87-3 POC13
PRO M 4721-98-6

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

7.05

16.55

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-0.68

-0.68

STN INTERNATIONAL LOGOFF AT 14:51:31 ON 10 MAY 2005